



Description

- Offshore waters are those where the water depth is > 30 feet (10 meters) with no surrounding land.
- Evaluation of environmental impacts to open water habitats is focused on water column organisms and those which inhabit or use the sea surface.
- Animals include marine mammals, sea turtles, pelagic birds, and many commercially and recreationally important fish and pelagic invertebrates.
- Organism densities in this habitat are low on average.
- Localized high densities can occur in areas such as convergence zones and upwelling areas.
- Pelagic birds are at greatest risk when large numbers are concentrated for feeding, migration, overwintering, or breeding.
- Biological resources in the water column are less vulnerable to spills than those at the water surface.
- The sea surface microlayer is important for biochemical processes; the organisms most vulnerable to exposure are poor or passive swimmers (planktonic forms).

Predicted Oil Behavior

- Spilled oil transport is controlled more by wind and ocean currents than by tides and mixing with freshwater outflows.
- Most of the soluble and toxic components of the spilled oil are lost through weathering within hours and days.
- Dissolved or dispersed oil concentrations are likely to be greatest in the top few meters.

Response Considerations

- Response activities are focused on removing oil from the water surface.
- Spill response is not conducted from a shoreline, but from water-based vessels or aircraft.
- Weather and sea conditions can significantly hamper response operations.
- Category V oils are likely to submerge and most of the response methods can only be used on the surface of the water.
- Special equipment might be needed for some products (e.g., containment booms which extend at least 9 ft.).
- Use of certain response options is seasonally limited to protect sensitive life histories.

Response Method	Oil Category				
	I	II	III	IV	V
Oil Category Descriptions					
I – Gasoline products					
II – Diesel-like products and light crudes					
III – Medium grade crudes and intermediate products					
IV – Heavy crudes and residual products					
V – Non-floating oil products					
Natural Recovery	A	A	B	B	B
Booming-Containment	–	A	A	A	–
Booming-Deflection/Exclusion	A	A	A	A	–
Skimming	–	A	A	A	–
Physical Herding	B	B	B	B	–
Manual Oil Removal/Cleaning	–	–	–	–	–
Sorbents	–	B	B	B	–
Debris Removal	–	A	A	A	–
Dispersants	B	A	A	A	–
Emulsion-treating Agents	–	B	B	B	–
Elasticity Modifiers	–	B	B	–	–
Herding Agents	–	B	B	–	–
Solidifiers	–	B	B	–	–
In-situ Burning	–	A	A	A	–

Consult the *Environmental Considerations for Marine Oil Spill Response* document referenced on page 5 before using this table.

- A = The least adverse habitat impact.
 B = Some adverse habitat impact.
 C = Significant adverse habitat impact.
 D = The most adverse habitat impact.
 I = Insufficient information - impact or effectiveness of the method could not be evaluated.
 – = Not applicable.